# Google Ads Data:-

# Competitive Analysis of Omnify: Uncovering Market Position and Strategies

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1. The competitive landscape in the software industry is dynamic and constantly evolving, and Omnify finds itself amid fierce competition. This report aims to provide a comprehensive analysis of Omnify competitors, their strengths and weaknesses, and strategies to gain a competitive advantage

```
In [1]: # importing important libraries
                               # importing important libraries
import nummy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import warnings
                                warnings.filterwarnings('ignore')
                                pd.set_option('display.max_rows',None)
pd.set_option('display.max_columns',None)
                               plt.style.use('ggplot')
sns.set_style('darkgrid')
In [2]: #Loading the dataset
df1 =pd.read_excel('Task.xlsx', sheet_name= 'Google Ads Data')
df2 =pd.read_excel('Task.xlsx', sheet_name= 'Listing Site Data')
In [3]: # checking shape of dataset
df1.shape, df2.shape
 Out[3]: ((418, 14), (2091, 12))
In [4]:
#checking for null values
pd.DataFrame({'Missing val': df2.isna().sum(), 'Missing val in %': round(df2.isna().sum()*100/len(df2),2)})
 Out[4]:
                                                                                     Missing val Missing val in %
                                     Product Name
                                                                                                            0
                                                                                                                                                                0.00
                                                                                              0
                                Categories
                                                                                                                                                          0.00
                                   Date of Report
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                               Average Position
                                                                                                                                                            0.05
                                                              Clicks
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                                                      Leads 1928
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                                Money Spent ($)
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                                                                                                               0
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                                                                                                     2025
                                                   Prospects
                                                                                                                                                            96.84
                                                                Paid
                                                                                                                                                              99.33
                               Paid Date
                                                                                                        2078
                                                                                                                                                             99.38
In [5]: #checking info()
df2.info()
                               <class 'pandas.core.frame.DataFrame'>
RangeIndex: 2091 entries, 0 to 2090
Data columns (total 12 columns):
# Column Non-Null Count Dtype
                                                                                                        2091 non-null
                                              | Product Name | 2091 non-null Categories | 2091 non-null Date of Report | 2091 non-null Average Position | 2099 non-null Clicks | 2099 non-null Money Spent ($) | 2089 non-null Channel | 2091 non-null Location | 2091 non-null Processer's | 2091 non-null 
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datetime64[ns]
                                9 Prospects 66 non-null float64
10 Paid 14 non-null float64
11 Paid Date 13 non-null datetime64
dtypes: datetime64[ns](1), float64(6), object(5)
                                memory usage: 196.2+ KB
                               df2['Date of Report']=pd.to_datetime(df2['Date of Report'])
#df2.Clicks=df2.Clicks.astype('int')
#df2.Ledat=df2.Ledat.astype('int')
#df2.Prospects=df2.Prospects.astype('int')
```

### Extracting summary of all features

```
In [7]: # column summary
              for i in df2.columns:
    print(i)
    print(df2[i].unique())
                    print(df2[i].nunique())
print('-'*50)
```

```
['Omnify']
                                     Categories
['Coaching' 'Dance Studio' 'Personal Trainer' 'Scheduling'
'Class Registration' 'Fitness' 'Swim School' 'Yoga Studio'
'Camp Management' Wusis Cschool' 'Reservations' 'Club Management'
'Gymnastics' 'Venue Management' 'Membership Management'
'Parks and Recreation' 'Spa' 'Martial Arts' 'Pilates Studio']
                                                 ----
                                      Date of Report
<DatetimeArray>
                                      ['2626-10-26 00:00:00', '2020-10-21 00:00:00', '2020-10-22 00:00:00', '2020-10-23 00:00:00', '2020-10-24 00:00:00', '2020-10-25 00:00:00', '2020-10-25 00:00:00', '2020-10-25 00:00:00', '2020-10-25 00:00:00', '2020-10-28 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-29 00:00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:00', '2020-10-20 00:
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'2021-04-24 00:00:00', '2021-04-25 00:00:00', '2021-04-26 00:00:00',
'2021-04-27 00:00:00', '2021-04-28 00:00:00', '2021-04-29 00:00:00',
'2021-04-3
                                    Average Position

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                                            23.5 41. 7. 11.75 13.25 25.5 17.25 215.5 17.25 215.5 17.25 215.5 17.25 215.5 17.25 215.5 17.25 215.5 17.25 215.5 17.25 215.5 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 21.25 2
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                                                                                                                                                                                                                                                                                                                                               53.75
                                       Channel
                                       ['Capterra' 'GetApp' 'Software Advice']
                                     Location
['UNITED STATES' 'UNITED KINGDOM' 'SINGAPORE' 'AUSTRALIA' 'CANADA'
'Middle East' 'USA' 'UK' 'US' 'United States' 'Canada' 'Singapore'
'United Kingdom' 'Australia']
                                               +
-----
                                     Prospects
[nan 1. 2.]
                                      [ nan 1794. 980. 1788. 1188. 2388. 2380. 4000. 549. 2100.]
                                            .
-----
                                      Paid Date
                                           Length: 14, dtype: datetime64[ns]
In [8]: # replacing values in Location column
                                     df2.Location =df2.Location.replace(('UNITED STATES','UNITED KINGDOM','SINGAPORE','AUSTRALIA','CANADA','United States','United Kingdom', 'US'), ('USA','UK','Singapore','Australia','Canada','USA','UK','USA'))
```

#### Descriptive stats

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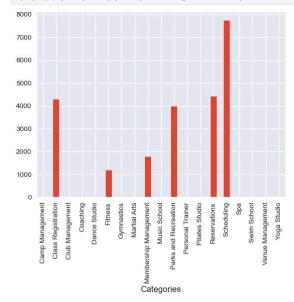
		Product Name	Categories	Date of Report	Average Position	Clicks	Leads	Money Spent (\$)	Channel	Location	Prospects	Paid	Paid Date
cc	ount	2091	2091	2091	2090.000000	2090.000000	163.000000	2089.000000	2091	2091	66.000000	14.000000	13
uni	ique	1	19	NaN	NaN	NaN	NaN	NaN	3	6	NaN	NaN	NaN
	top	Omnify	Reservations	NaN	NaN	NaN	NaN	NaN	Capterra	USA	NaN	NaN	NaN
	freq	2091	458	NaN	NaN	NaN	NaN	NaN	1211	982	NaN	NaN	NaN
m	nean	NaN	NaN	2021-01-27 13:47:05.251075840	10.731464	1.663636	1.141104	12.074318	NaN	NaN	1.030303	1675.714286	2021-03-27 14:46:09.230769152
	min	NaN	NaN	2020-10-20 00:00:00	0.000000	1.000000	1.000000	2.000000	NaN	NaN	1.000000	549.000000	2020-12-02 00:00:00
1	25%	NaN	NaN	2020-12-08 00:00:00	3.000000	1.000000	1.000000	2.000000	NaN	NaN	1.000000	1032.000000	2021-03-05 00:00:00
	50%	NaN	NaN	2021-01-20 00:00:00	8.000000	1.000000	1.000000	7.250000	NaN	NaN	1.000000	1788.000000	2021-03-20 00:00:00
	75%	NaN	NaN	2021-03-07 00:00:00	13.000000	2.000000	1.000000	12.250000	NaN	NaN	1.000000	2023.500000	2021-04-05 00:00:00
	max	NaN	NaN	2021-12-04 00:00:00	74.000000	80.000000	6.000000	1460.000000	NaN	NaN	2.000000	4000.000000	2021-12-27 00:00:00
	std	NaN	NaN	NaN	11.219817	2.798869	0.542938	39.172291	NaN	NaN	0.172733	903.848390	NaN

#### Observations:

- 1. The Data set is for the Product named 'Omnify'
- 2. There are 19 differnet Catgories covered in the dataset
- 3. Date of report ranges from 20-10-2020 to 04-12-2021
- 4. Observing the statistical data of 'Average Position' it can be said that:
  - A. There is one missing value
  - B. There are Outliers in the column
- 5. Observing the statistical data of 'Clicks' it can be said that:
  - A. There is one missing value
  - B. There are Outliers in the column
- 6. Avg. Money Spent(\$) is ads is 12.07 and max is USD 1460.00
- 7. Large No. of missing values (> 90%) in columns: Lead, Prospects, Paid and Paid Date
- 8. Average of Amt. Paid is USD 1675.71 and maximum Amt. Paid is USD 4000.
- 9. Paid Date ranges from 02-12-2020 to 27-12-2021

### Checking the Amt. Paid vs Category relationship

In [10]: df2.groupby(['Categories'])['Paid'].sum().plot(kind= 'bar')
plt.show()
#df2.groupby(['Categories'])['Paid'].sum().sort\_values(ascending = False)



### Obseravtions:

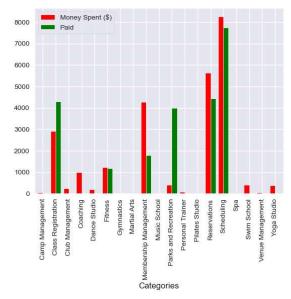
1. Camp Management, Club Management, Coaching, Dance Studio, Gymnastics, Martial Arts, Music School, Personal Trainer, Pilates Studio, Spa, Swim School, Venue Management, and Yoga Studio have a "Return" value of 0, indicating that no direct revenue has been generated from these categories during the given period. This suggests that either these businesses have not yet started earning profits, or the data provided does not capture their income.

## Checking the Amt. Paid and Money Spent vs Category

In [11]: df2.groupby(['Categories'])[['Money Spent (\$)','Paid']].sum().plot(kind= 'bar', color=['red', 'green'], width=0.8)
df2.groupby(['Categories'])[['Money Spent (\$)','Paid']].sum()

1114	[11	7 -
	11	

	M (¢)	Paid
	Money Spent (\$)	Paid
Categories		
Camp Management	48.00	0.0
Class Registration	2910.50	4303.0
Club Management	245.50	0.0
Coaching	1003.25	0.0
Dance Studio	202.25	0.0
Fitness	1238.50	1188.0
Gymnastics	6.00	0.0
Martial Arts	2.00	0.0
Membership Management	4273.85	1788.0
Music School	42.00	0.0
Parks and Recreation	418.65	4000.0
Personal Trainer	84.00	0.0
Pilates Studio	3.50	0.0
Reservations	5627.75	4437.0
Scheduling	8246.00	7744.0
Spa	21.75	0.0
Swim School	403.00	0.0
Venue Management	52.75	0.0
Yoga Studio	394.00	0.0



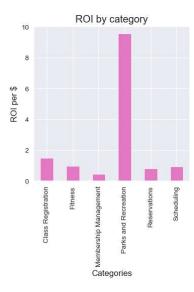
### Observation:

1. Class Registration, Fitness, Membership Management, and Reservations have positive ROI values, indicating that they have earned more money than they spent during the period under consideration.

```
In [12]: #Calculation ROI of all Categories.
                   data=df2.groupby(['Categories'])[['Money Spent ($)','Paid']].sum()
data['ROI']=round(data['Paid'])data['Money Spent ($)'],2)
plt.figure(figsize =(4,4))
data.ROI[data.ROI>0].plot(kind = 'bar', color = 'tab:pink')
plt.title('ROI by category')
plt.ylabel('ROI per $')
                   data.sort_values(by='ROI', ascending = False)
```

#### Out[12]: Money Spent (\$) Paid ROI

Categories			
Parks and Recreation	418.65	4000.0	9.55
Class Registration	2910.50	4303.0	1.48
Fitness	1238.50	1188.0	0.96
Scheduling	8246.00	7744.0	0.94
Reservations	5627.75	4437.0	0.79
Membership Management	4273.85	1788.0	0.42
Camp Management	48.00	0.0	0.00
Pilates Studio	3.50	0.0	0.00
Venue Management	52.75	0.0	0.00
Swim School	403.00	0.0	0.00
Spa	21.75	0.0	0.00
Music School	42.00	0.0	0.00
Personal Trainer	84.00	0.0	0.00
Martial Arts	2.00	0.0	0.00
Gymnastics	6.00	0.0	0.00
Dance Studio	202.25	0.0	0.00
Coaching	1003.25	0.0	0.00
Club Management	245.50	0.0	0.00
Yoga Studio	394.00	0.0	0.00



### Coming on to channel wise return on investment

```
In [13]: data=df2.groupby(['Channel'])[['Money Spent ($)','Paid']].sum()
    data['ROI (%)']=round(data['Paid']*100/data['Money Spent ($)'],2)
    a= lambda x:x-100 if x:100 else -(100-x)
    data['ROI (%)']=list(map(a, data['ROI (%)']))
    data['Profit ($)']=data['Paid']-data['Money Spent ($)']
    data.sort_values(by='ROI (%)', ascending = False)
```

Out[13]:		Money Spent (\$)	Paid	ROI (%)	Profit (\$)
	Channel				
	Software Advice	311.50	1794.0	475.92	1482.50
	Capterra	19461.85	19878.0	2.14	416.15
	GetApp	5449.90	1788.0	-67.19	-3661.90

In [14]: print('Overall Marketing efforts (P/L) in USD:', round(sum(data['Profit (\$)']),2))

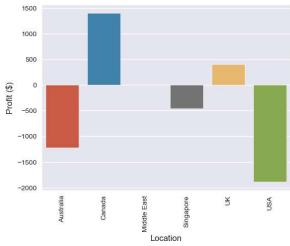
Overall Marketing efforts (P/L) in USD: -1763.25

#### Observations:

- 1. Higher ROI indicates better performance.
- 2. Capterra: 2.14%
- 3. GetApp: -67.19%
- 4. Software Advice: 475.92%
- 5. Among the channels listed, Software Advice has the highest ROI, indicating that it is doing better in terms of generating returns compared to the money spent.
- 6. Capterra is performing well, with a profit of USD 416.15. You might want to invest more in this channel as it seems to generate a positive return on investment.
- 7. GetApp is currently experiencing a significant loss of USD -3661.9. You may want to evaluate the performance of this channel and identify any potential issues that are leading to such losses. Consider reevaluating your strategy for GetApp or reduce spending until improvements are made.
- 8. Software Advice shows a profit of USD 1482.5. This channel is performing relatively well, but you could still analyze its performance further to optimize the return.
- 9. The overall marketing efforts are resulting in a total loss of -\$1763.25. It would be essential to analyze the reasons behind this loss and see if there are any overarching trends affecting multiple channels. Consider focusing more on high-performing channels and reevaluating those that are causing losses.

#### Coming on to Location wise ROI and Profit

```
In [15]: data=df2.groupby(['Location'])[['Money Spent ($)','Paid']].sum()
data['Profit ($)']-data['Paid']-data['Money Spent ($)']
data.reset_index(inplace= True)
sns.barplot(x= 'Location',y= 'Profit ($)', data= data)
plt.xticks(rotation =90)
plt.show()
data.sort_values(by= 'Profit ($)', ascending = False)
```



```
Location Money Spent ($)
                          Paid Profit ($)
    Canada
                  1369.75 2768.0 1398.25
4
     UK
                  4361.85 4768.0 406.15
2 Middle East
                   0.00
                           0.0
                                  0.00
3 Singapore
              2243.25 1788.0 -455.25
O Australia
                 1224.25 0.0 -1224.25
5 USA 16024.15 14136.0 -1888.15
```

In [16]: # We can see ZERO return in Australia, despite investment of USD 1224.25, Lets check the channel wise performance
print('Analysing ZERO return in Australia')
df2[df2.Location == 'Australia'].groupby('Channel')[['Money Spent (\$)','Paid']].sum()

Analysing ZERO return in Australia

Out[16]: Money Spent (\$) Paid

Channel		
Capterra	792.50	0.0
GetApp	425.75	0.0
Software Advice	6.00	0.0

In [17]: print('Analysing Middle East')
 df2[df2.Location == 'Middle East']

Analysing Middle East

#### Observations:

- 1. Positive Profit in the UK: The United Kingdom is performing well with positive profit numbers. Consider studying the factors contributing to this success and try to replicate them in other regions.
- 2. High sales revenue but negative profit: Some regions like the USA and Singapore are generating high sales revenue but still experiencing losses. This situation suggests the need to review the cost structure and pricing strategy to ensure profitability.
- 3. Losses in AUSTRALIA across all channels: Australia is consistently showing losses across all channels. Evaluate the market conditions and demand in Australia to understand if there are any issues affecting performance in this region.
- 4. Losses in various regions: Many regions are showing losses in their profit and loss statements. It is essential to analyze the reasons behind these losses and take appropriate actions to improve the financial performance.
- 5. Focus on Canada and the United States: Canada and the United States are generating significant sales revenue, but they also have substantial losses. It might be beneficial to closely examine the operations in these regions and identify areas for cost optimization or revenue enhancement.
- 1. Missing data: The "Middle East" region for the Capterra channel has no data for money spent, sales revenue, or profit/losses. Ensure that all necessary data is collected and accounted for to get a comprehensive view of the company's financial performance.
- 2. Consider regional factors: Each region has its unique market characteristics, customer preferences, and competitive landscape. Take these factors into account when formulating strategies for each location.
- 3. Explore opportunities for growth: Identify regions with growth potential and invest resources strategically to tap into these opportunities

#### Some additional observations

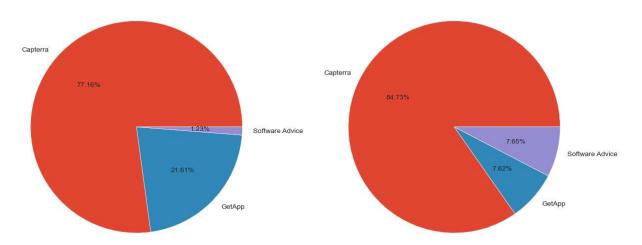
```
In [18]: # Money spend Channel wise

datal=df2['Money Spent ($)'].groupby(df2.Channel).sum()
data2=df2['Paid'].groupby(df2.Channel).sum()
plt.figure(figsize =(15,18))

plt.subplot(1,2,1)
plt.pie(data1.values, labels =data1.index, autopct = '%0.2f%%')
plt.title('Channel-wise Money Spent ($)')
plt.subplot(1,2,2)
plt.pie(data2.values, labels =data1.index, autopct = '%0.2f%%')
plt.pie(data2.values, labels =data1.index, autopct = '%0.2f%%')
plt.title('Channel-wise Amt. Paid ($)')
plt.show()
```

#### Channel-wise Money Spent (\$)

### Channel-wise Amt. Paid (\$)



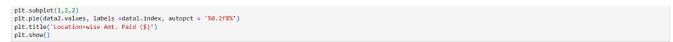
#### Obseravtions:

1. Channel with highst ROI % of narly 475% is receiving the minimum investment, perhaps reallocation of funds is needed to increase the profit of Omnify.

```
In [19]: # Money spend Location wise

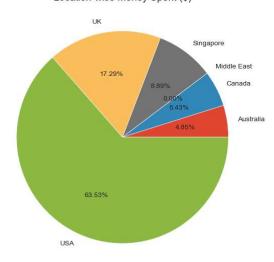
data1=df2['Money Spent ($)'].groupby(df2.Location).sum()
   data2=df2['Paid'].groupby(df2.Location).sum()
   plt.figure(figsize =(15,10))

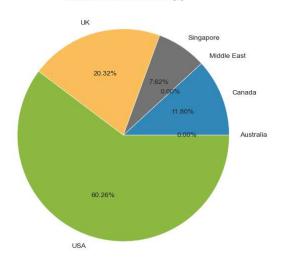
plt.subplot(1,2,1)
   plt.pie(data1.values, labels =data1.index, autopct = '%0.2f%%')
   plt.title('Location-wise Money Spent ($)')
```



### Location-wise Money Spent (\$)

### Location-wise Amt. Paid (\$)





## In [20]: df2.head()

Out[20]:		Product Name	Categories	Date of Report	Average Position	Clicks	Leads	Money Spent (\$)	Channel	Location	Prospects	Paid	Paid Date
	0	Omnify	Coaching	2020-10-20	13.0	1.0	NaN	2.0	Capterra	USA	NaN	NaN	NaT
	1	Omnify	Dance Studio	2020-10-20	20.0	1.0	NaN	2.0	Capterra	UK	NaN	NaN	NaT
	2	Omnify	Personal Trainer	2020-10-20	6.0	1.0	NaN	2.0	Capterra	Singapore	NaN	NaN	NaT
	3	Omnify	Scheduling	2020-10-20	59.0	1.0	NaN	2.0	GetApp	USA	NaN	NaN	NaT
	4	Omnify	Class Registration	2020-10-21	6.0	1.0	NaN	2.0	Capterra	Australia	NaN	NaN	NaT

In [21]: # Exploring Leads and Prospects
df2.groupby('Location')[['Leads', 'Prospects']].sum()

#### Leads Prospects Out[21]:

Location		
Australia	8.0	4.0
Canada	11.0	5.0
Middle East	1.0	1.0
Singapore	28.0	8.0
UK	21.0	7.0
USA	117.0	43.0

In [22]: df2.groupby('Channel')[['Leads', 'Prospects']].sum()

#### Out[22]:

	Leads	Prospects
Channel		
Capterra	138.0	50.0
GetApp	44.0	15.0
Software Advice	4.0	3.0

In [23]: df2[df2.Location == 'USA'].groupby('Categories')[['Leads', 'Prospects']].sum().sort\_values(by= 'Leads', ascending = False)

### Out[23]:

#### Leads Prospects Categories Reservations 39.0 Scheduling 27.0 3.0 Class Registration 22.0 15.0 Membership Management 15.0 5.0 Coaching 0.0 Swim School 4.0 0.0 Fitness 3.0 3.0 Parks and Recreation 3.0 2.0 Camp Management 0.0 0.0 Pilates Studio 0.0 Venue Management 0.0 0.0 **Spa** 0.0 0.0 Music School 0.0 0.0 Personal Trainer 0.0 0.0 Martial Arts 0.0 0.0 Gymnastics 0.0 0.0 Dance Studio 0.0 Club Management 0.0 0.0

Yoga Studio 0.0

0.0

#### Observations:

2. Under USA maximum interest is shown under following categories:Reservations,Scheduling, Class Registration and Membership Management
End of Report